



A10i, S10i
(600-700 Series)
Two Post Surface Mounted Lift

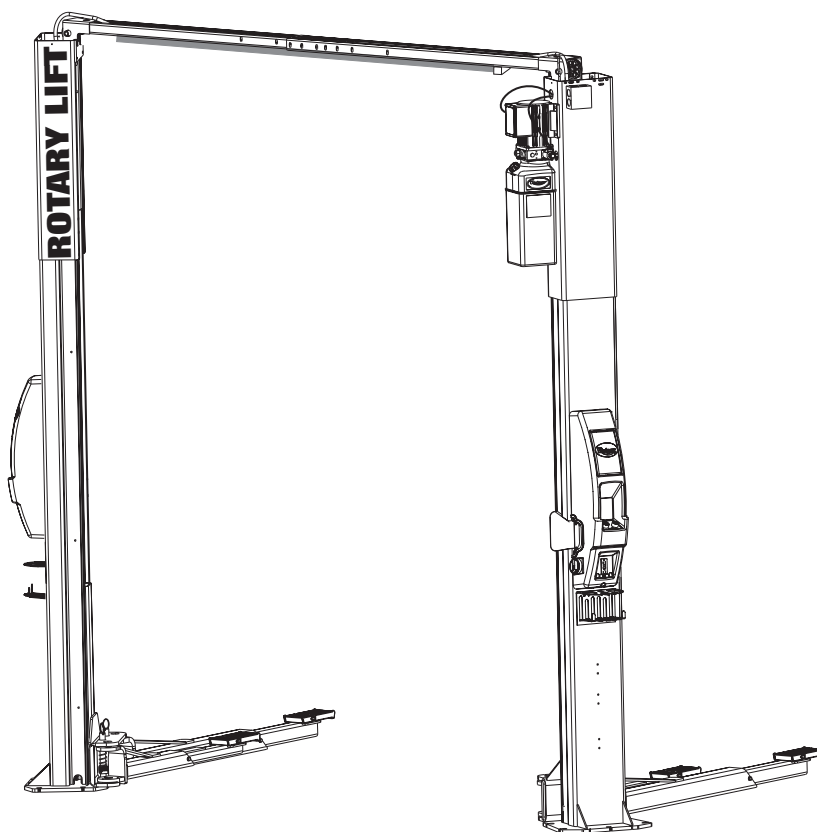


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INSTALLER: Please return this booklet to literature package and give to lift owner/operator.

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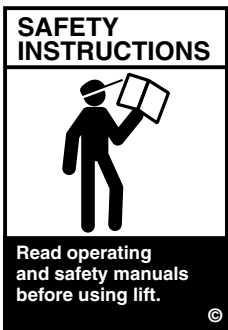
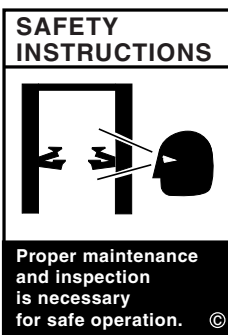
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Rev. E 4/10/2013

OWNER/EMPLOYER RESPONSIBILITIES



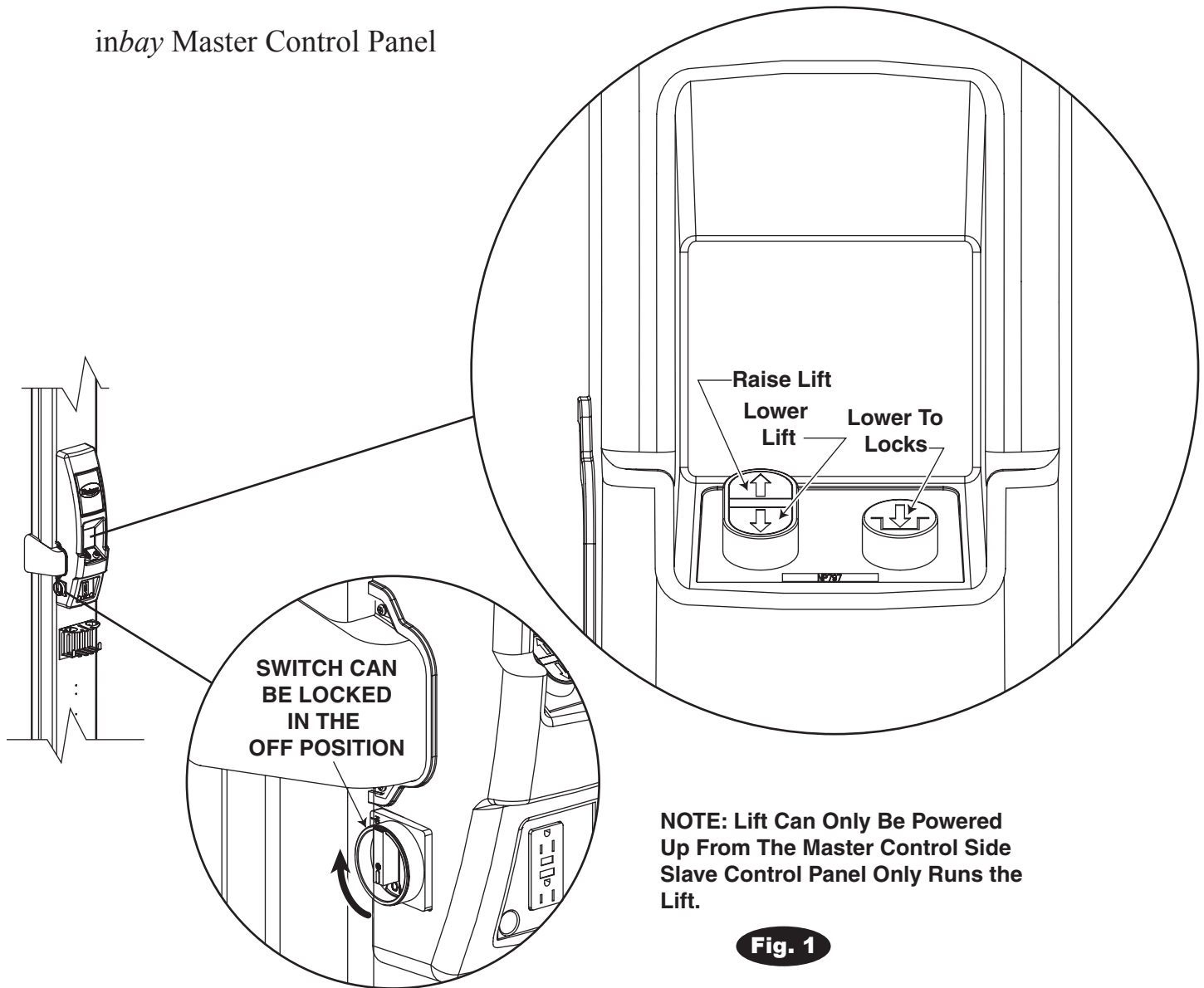
The Owner/Employer:

- Shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM01-1, ALI Lifting it Right safety manual; ALI/ST-90 ALI Safety Tips card; ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts.
- Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and The Employer Shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.
- Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and The Employer Shall ensure that lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.
- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.
- Shall display the lift manufacturer's operating instructions; ALI/SM 93-1, ALI Lifting it Right safety manual; ALI/ST-90 ALI Safety Tips card; ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.
- Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-2003(R2008), Safety Requirements for the Lockout/Tagout of Energy Sources, before beginning any lift repairs.
- Shall not modify the lift in any manner without the prior written consent of the manufacturer.



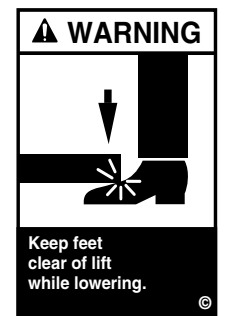
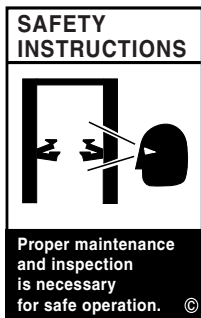
SAFETY INSTRUCTIONS

inbay Master Control Panel



**NOTE: Lift Can Only Be Powered Up From The Master Control Side
Slave Control Panel Only Runs the Lift.**

Fig. 1



- **Daily** inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use **only** qualified lift service personnel and genuine Rotary parts to make repairs.
- **Thoroughly** train all employees in use and care of lift, using manufacturer's instructions and **Lifting It Right** and **Safety Tips** supplied with the lift.
- **Never** allow unauthorized or untrained persons to position vehicle or operate lift.
- **Prohibit** unauthorized persons from being in shop area while lift is in use.
- **Do Not** permit anyone on lift or inside vehicle when it is either being raised or lowered.
- **Always** keep area around lift free of tools, debris, grease, and oil.

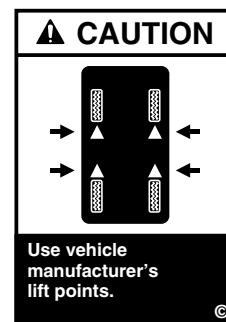
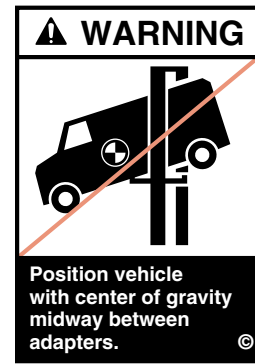
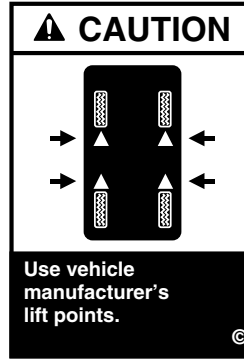
SAFETY INSTRUCTIONS

- **Never** overload lift. Capacity of lift is shown on nameplate affixed to the lift.
- **Do Not** stand in front of the vehicle while it is being positioned in lift bay.
- **Do Not** hit or run over lift arms or adapters. This could damage lift or vehicle. Before driving vehicle into lift bay, position arms and adapters to provide unobstructed entrance onto lift.
- **Load** vehicle on lift carefully. Position lift adapters to contact at the vehicle manufacturer's recommended lift points. Raise lift until adapters contact vehicle. Check adapters for secure contact with vehicle. Raise lift to desired working height.

IMPORTANT Engagement adapters and auxiliary adapters must be rated equal or greater than the capacity of lift arms.

CAUTION DO NOT go under vehicle if locking latches are not engaged.

- **Do Not** remove or disable arm restraints.
- **Remain** clear of lift when raising or lowering vehicle.
- **Always** use safety stands when removing or installing heavy components.
- **Avoid** excessive rocking of vehicle while on lift.
- **Clear** area if vehicle is in danger of falling.
- **Remove** tool trays, stands, etc. before lowering lift.
- **Position** lift arms and adapters to provide an unobstructed exit before removing vehicle from lift area.



OPERATING INSTRUCTIONS

⚠ WARNING To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

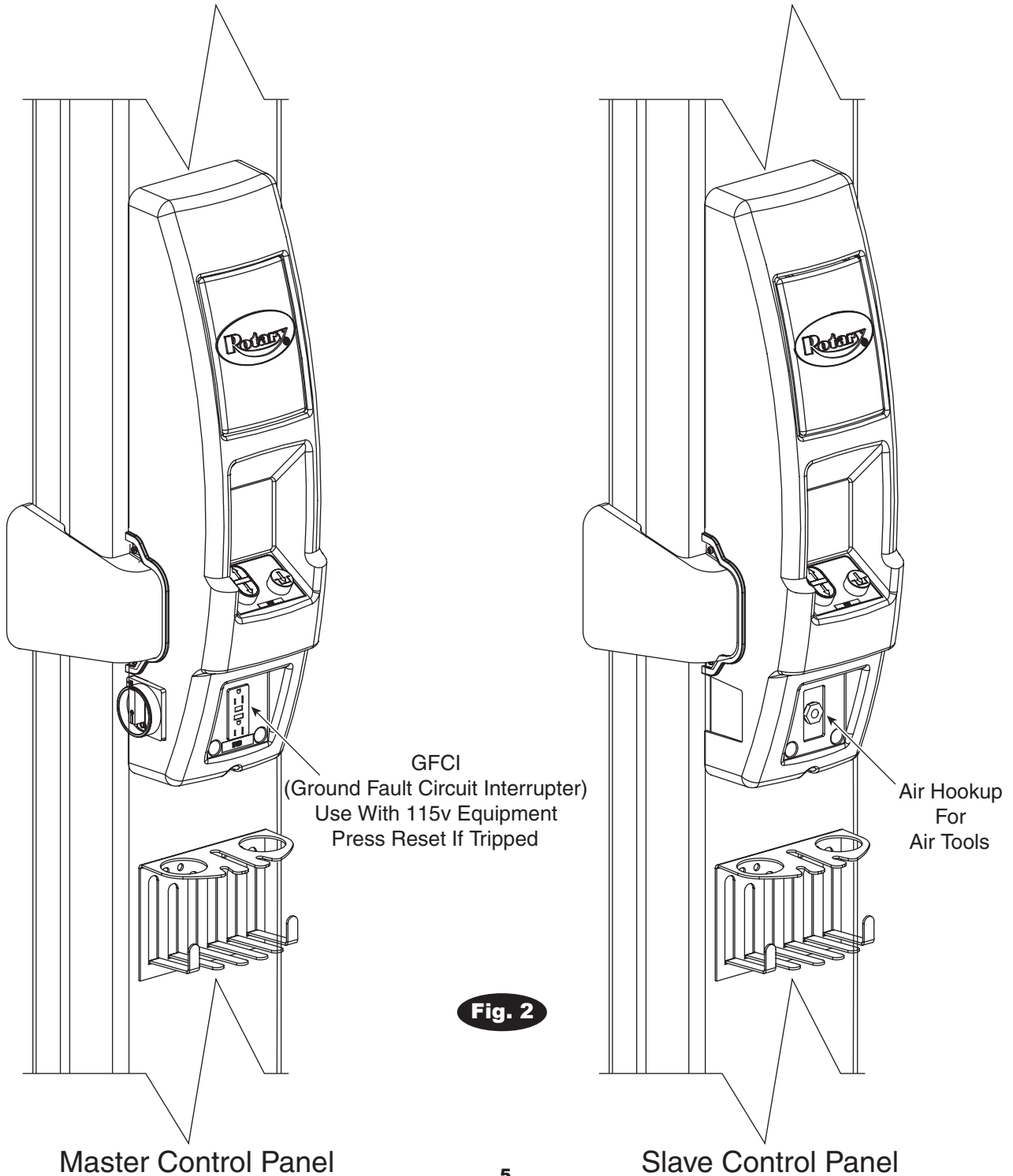
IMPORTANT Always lift the vehicle using all four adapters. **NEVER** raise just one end, one corner, or one side of vehicle.

⚠ WARNING If Lift is not operating properly, **DO NOT** use until adjustments or repairs are made by a qualified lift service personnel.

A. Spotting and Loading Vehicle on Lift:

Observe and heed **SAFETY**, **CAUTION** and **WARNING** labels on the lift.

1. Lift must be fully lowered and service bay clear of all personnel before the vehicle is brought on lift. Swing arms out to full drive-thru position.



2. Spot vehicle over lift with left front wheel in proper spotting position, Fig. 3.
3. Loading: Swing arms under vehicle and position adapters at vehicle manufacturer's recommended lift points, Fig. 4 and Fig. 5. Use intermediate, high step, or optional adapters for under body clearance when required.

IMPORTANT Engagement adapters and auxiliary adapters must be rated equal or greater than the capacity of lift arms.

IMPORTANT Do Not rest adapter against edge of arm.



Note: Allow 2 seconds between motor starts. Failure to comply may cause motor burnout.

⚠ WARNING Most specialty or modified vehicles cannot be raised on a frame engaging lift. Contact vehicle manufacturer for raising or jacking details.

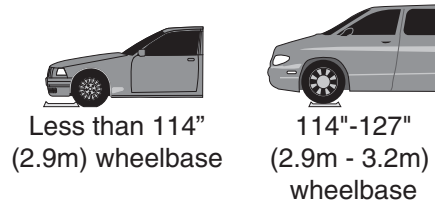
NOTE: Some vehicles may have the manufacturer's Service Garage Lift Point locations identified by triangle shape marks on it's undercarriage (reference ANSI/SAE J2184-1992). Also, there may be a label located on the right front door lock face showing specific vehicle lift points. If the specific vehicle lift points are not identified, refer to the "Typical Lift Points" illustrated herein. ALWAYS follow the operating instructions supplied with the lift.



Typical Wheel Spotting Positions

Typical Wheel Spotting Postions

Front Wheel Drive Vehicles



Rear Wheel and 4 Wheel Drive Vehicles

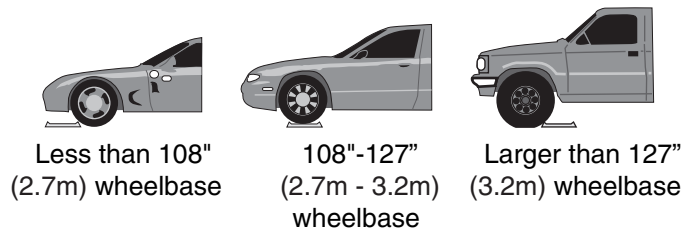


Fig. 3

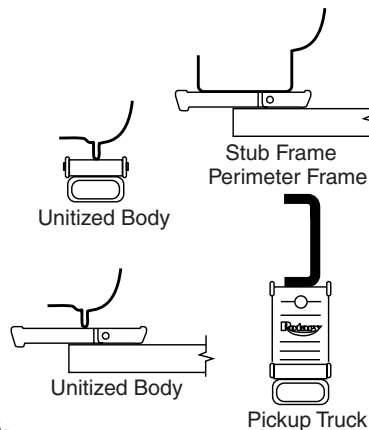


Fig. 4

Typical Lifting Points

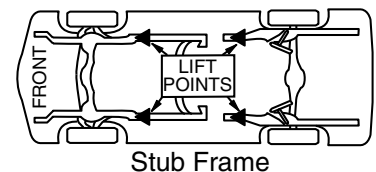
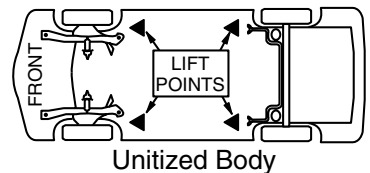
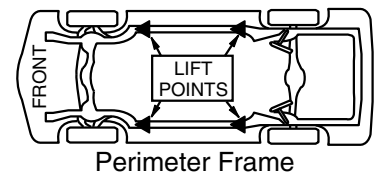
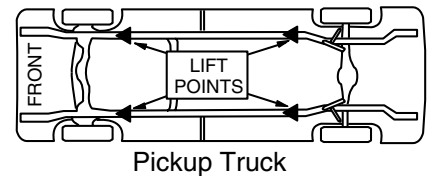


Fig. 5

⚠ WARNING Before attempting to lift pickup trucks or other truck frame vehicles, be sure that:

- Vehicle frame is strong enough to support its weight and has not been weakened by modification or corrosion.
- Vehicle individual axle weight does not exceed one-half lift capacity.
- Adapters are in secure contact with frame at vehicle manufacturers recommended lift points.
- Rotate front and rear adapter to oppose each other when using the high step adapter and/or any auxiliary height extending adapter, Fig. 6.
- Vehicle is stable on lift and neither front nor “tail” heavy.
- The overhead switch will contact the highest point of vehicle.

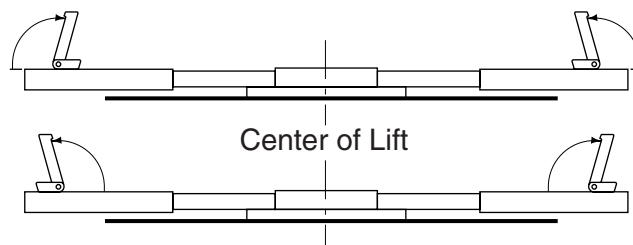


Fig. 6



inbay Master Control Panel

B. To Raise Lift:

1. Be sure Power-up Lift Switch is switched to on position, Fig. 7.
2. Push  on touch pad to raise lift.
3. Raise vehicle until tires clear the floor.
4. Stop and check adapters for secure contact at vehicle manufacturer's recommended lift points.

CAUTION DO NOT go under vehicle if all four adapters are not in secure contact at vehicle manufacturer's recommended lift points.

5. Repeat complete spotting, loading and raising procedures if required.
6. Continue to raise to desired height **only** if vehicle is secure on lift.

Note: If the vehicle is raised too high, an overhead switch bar is tripped. This protects vehicles from being raised too high.

7. Push  to lower lift onto locking latches.

C. While Using Lift:

1. Avoid excessive rocking of vehicle while on lift.
2. Always use safety stands as needed or when removing or installing heavy components.

*Maximum operation pressure is:
2755 psi for A10i, S10i

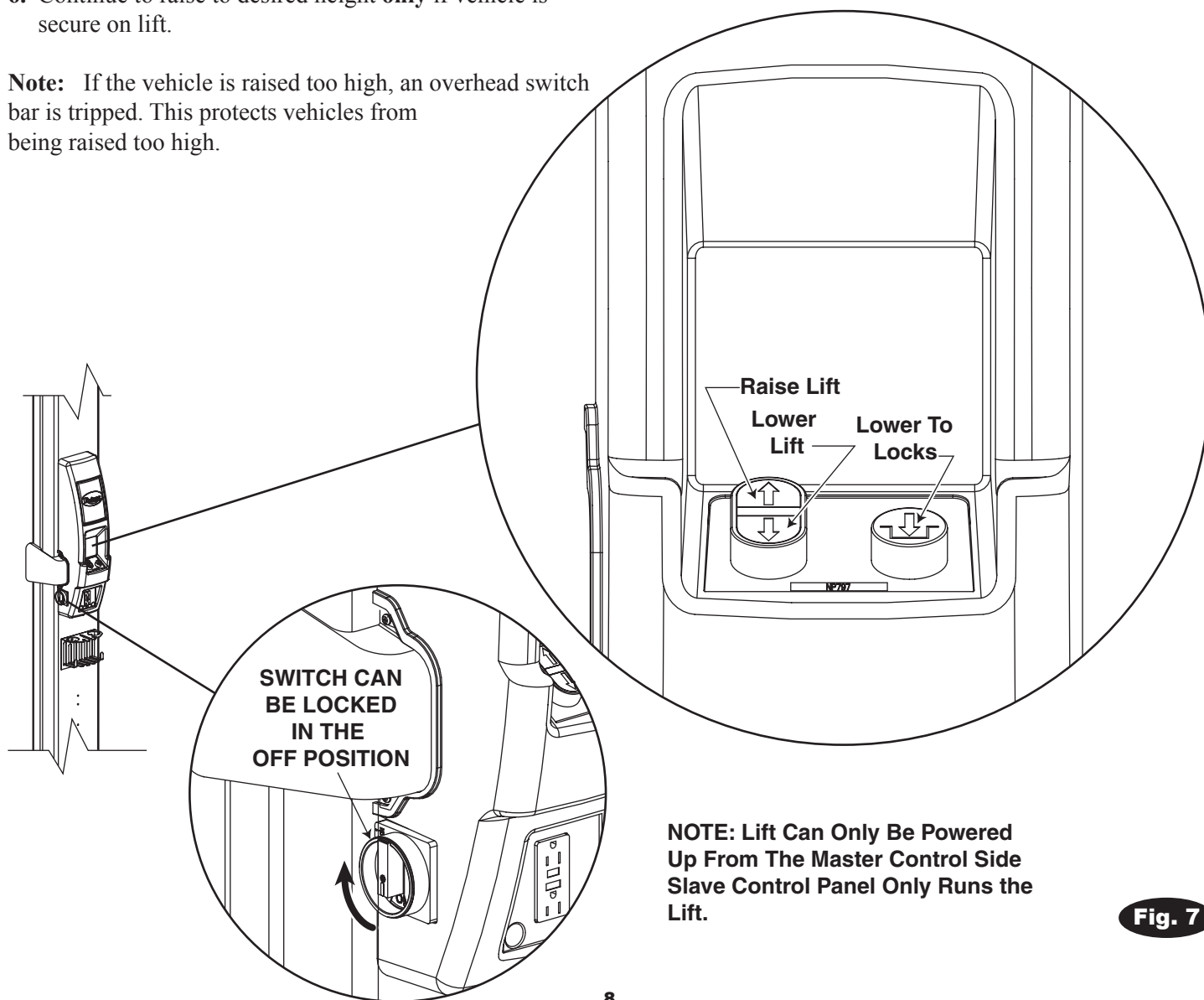


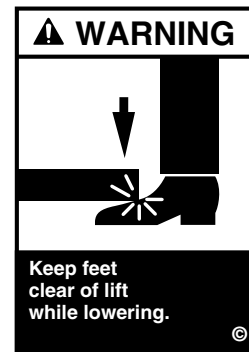
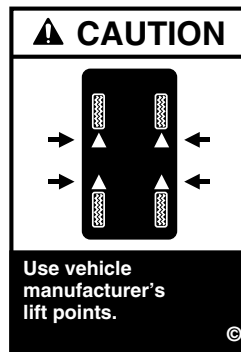
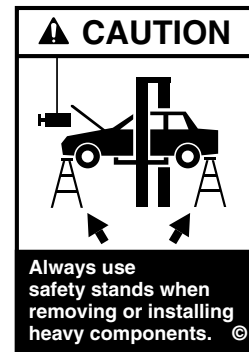
Fig. 7

D. To Lower Lift:

1. Remove all tools or other objects from lift area.
2. Raise lift off locking latches press , Fig. 7.
3. Press  on the touch pad to lower lift, Fig 7.

CAUTION Remain clear of lift when lowering vehicle.
Observe pinch point warning decals.

4. Remove adapters from under vehicle and swing arms to full drive-thru position before moving vehicle.



MAINTENANCE INSTRUCTIONS

Note: If you are not completely familiar with automotive lift maintenance procedures; **STOP:** Contact factory for instructions.

To avoid personal injury, permit only qualified personnel to perform maintenance on this equipment.

- **Always** keep bolts tight. Check periodically.
- **Always** keep lift components clean.
- **Always** if oil leakage is observed, call local service representative.
- **Always** if electrical problems develop, call local service representative.
- **Daily:** Check cables and sheaves for wear. Observe for frayed cable strands. Wipe cables with a rag to detect hard to see small broken cable strands. Replace cables showing any broken strands. Replace worn parts as required with genuine Rotary parts.
- **Daily:** Inspect adapters for damage or excessive wear. Replace as required with genuine Rotary parts.
- **Monthly:** Check equalizer cable tension. Adjust per lift installation instructions. If there are no more threads available for adjustment, replace the cable. Do not use washers to stand off the nut to use previously used threads.
- **Monthly:** Test GFCI outlet.
- **Every 3 Months:** Check anchor bolts for tightness. Anchors should be torqued to 90 ft/lbs.
- **Semi-Annually:** Check fluid level of lift power unit and refill if required per lift installation instructions.
- **Replace** all caution, warning or safety related decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.

⚠ WARNING Clear area if vehicle is in danger of falling.	⚠ WARNING Position vehicle with center of gravity midway between adapters.	⚠ CAUTION Lift to be used by trained operator only.	⚠ CAUTION Authorized personnel only in lift area.
⚠ WARNING Remain clear of lift when raising or lowering vehicle.	⚠ WARNING Avoid excessive rocking of vehicle while on lift.	⚠ CAUTION Use vehicle manufacturer's lift points.	⚠ CAUTION Always use safety stands when removing or installing heavy components.
⚠ WARNING Do not override self-closing lift controls.	⚠ WARNING Keep feet clear of lift while lowering.	⚠ CAUTION Use height extenders when necessary to ensure good contact.	⚠ CAUTION Auxiliary adapters may reduce load capacity.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL, 32903-3116.

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SAFETY INSTRUCTIONS Read operating and safety manuals before using lift.	SAFETY INSTRUCTIONS Proper maintenance and inspection is necessary for safe operation.
SAFETY INSTRUCTIONS Do not operate a damaged lift.	The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style. Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL, 32903-3116. They are protected by copyright. Set of labels may be obtained from ALI or its member companies. © 1992 by ALI, Inc. ALIWL101s

TROUBLE SHOOTING

Trouble	Cause	Remedy
Lift stops short of full rise or chatters.	1. Low oil level. 2. Air in hydraulic lines/cylinder.	1. Fill tank to MIN__ mark with ISOVG32 hydraulic oil or Dexron III ATF. 2. Start unit, raise lift about 2ft. Open cylinder bleeders approximately 2 turns. Close bleeders when fluid streams. Lower lift and fill tank.
Anchors will not stay tight.	1. Holes drilled oversize. 2. Concrete floor thickness or holding strength not sufficient.	1. Relocate lift using new bit to drill holes. Reference installation instructions for proper anchoring method and minimum spacing requirements. 2. Break out old concrete and repour per lift installation instructions.
Slow lifting speed.	1. Air mixed with oil.	1. Change oil using ISOVG32 hydraulic oil of Dexron III ATF.
Oil blowing out filler breather cap.	1. Air mixed with oil suction. 2. Oil return tube loose.	1. Tighten all suction line fittings. 2. Reinstall oil return tube.
Lift slowly settles down.	1. Debris in check valve seat. 2. Debris in lowering valve seat. 3. External oil leak.	1. Clean check valve. 2. Clean lowering valve. 3. Repair external leaks.
Lift going up unlevel.	1. Cables out of adjustment. 2. Lift installed on unlevel floor.	1. Adjust slack out of cable. 2. Shim lift to level columns (Not to exceed 1/2" per column).
Motor does not run.	1. Blown fuse or circuit breaker. 2. Incorrect voltage to motor. 3. Bad wiring connections. 4. Motor up button failure. 5. Overhead limit switch failure. 6. Motor windings burned out. 7. Motor relay failure.	1. Replace blown fuse or reset circuit breaker. 2. Check for correct voltage to motor. 3. Repair and insulate all connections. 4. Check/Replace switch. 5. Check overhead bar for contact. Check/Replace switch assembly. Ensure that the assembly is connected correctly on the back side of the black enclosure. 6. Replace motor. 7. Replace motor relay.
Motor runs but will not raise lift.*	1. Open lowering valve. 2. Pump sucking air. 3. Suction stub off pump. 4. Low oil level.	1. Repair or replace lowering valve. 2. Tighten all suction line fittings. 3. Replace suction stub. 4. Fill tank to proper level with ISOVG32 Hydraulic Oil or Dexron III ATF.
Motor runs—raises unloaded lift but will not raise vehicle.*	1. Motor running on low voltage. 2. Debris in lowering valve. 3. Improper relief valve adjustment. 4. Overloading lift.	1. Supply correct voltage to motor. 2. Clean lowering valve. 3. Replace relief valve cartridge. 4. Check vehicle weight and/or balance vehicle weight on lift.

Note: Electrical service faults should be serviced by a certified electrician.

Note: Shim thickness of 2" is possible by using optional shim kit #FC5393. Contact your authorized Rotary repair person.

TROUBLE SHOOTING

Trouble	Cause	Remedy
Locking latches do not engage.	1. Latch shafts rusted. (Usually occurs on outside installations or in high humidity areas such as vehicle wash bays.) 2. Latch spring broken. 3. Latch cable needs adjustment.	1. Remove covers, oil latch mechanism. Actuate latch release handle several times to allow oil to coat shaft. 2. Replace broken spring. 3. Adjust clamp at cable end per lift installation instructions.
Locking latches do not disengage.	1. Bad wiring connections. 2. Lower to locks button switch failure. 3. Solenoid failure.	1. Repair and insulate all connections. 2. Check/replace switch. 3. Check solenoid connections replace solenoid.
Lift will not raise off of latches.	1. Motor, pump, or cylinder failure.	1. Contact lift manufacturer's Customer Service.

LIFT LOCKOUT/TAGOUT PROCEDURE

Purpose

This procedure establishes the minimum requirements for the lockout of energy that could cause injury to personnel by the operation of lifts in need of repair or being serviced. All employees shall comply with this procedure.

Responsibility

The responsibility for assuring that this procedure is followed is binding upon all employees and service personnel from outside service companies (i.e., Authorized Rotary Installers, contactors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

Preparation

Employees authorized to perform lockout shall ensure that the appropriate energy isolating device (i.e., circuit breaker, fuse, disconnect, etc.) is identified for the lift being locked out. Other such devices for other equipment may be located in close proximity of the appropriate energy isolating device. If the identity of the device is in question, see the shop supervisor for resolution. Assure that proper authorization is received prior to performing the lockout procedure.

Sequence of Lockout Procedure

- 1) Notify all affected employees that a lockout is being performed and the reason for it.
- 2) Unload the subject lift. Shut it down and assure the disconnect switch is “OFF” if one is provided on the lift.
- 3) The authorized lockout person operates the main energy isolation device removing power to the subject lift.
 - If this is a lockable device, the authorized lockout person places the assigned padlock on the device to prevent its unintentional reactivation. An appropriate tag is applied stating the person’s name, at least 3” x 6” in size, an easily noticeably color, and states not to operate device or remove tag.
 - If this device is a non-lockable circuit breaker or fuse, replace with a “dummy” device and tag it appropriately as mentioned above.
- 4) Attempt to operate lift to assure the lockout is working. Be sure to return any switches to the “OFF” position.
- 5) The equipment is now locked out and ready for the required maintenance or service.

Restoring Equipment to Service

- 1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
- 2) At this point, the authorized person can remove the lock (or dummy circuit breaker or fuse) & tag and activate the energy isolating device so that the lift may again be placed into operation.

Rules for Using Lockout Procedure

Use the Lockout Procedure whenever the lift is being repaired or serviced, waiting for repair when current operation could cause possible injury to personnel, or for any other situation when unintentional operation could injure personnel. No attempt shall be made to operate the lift when the energy isolating device is locked out.

OPERATING CONDITIONS

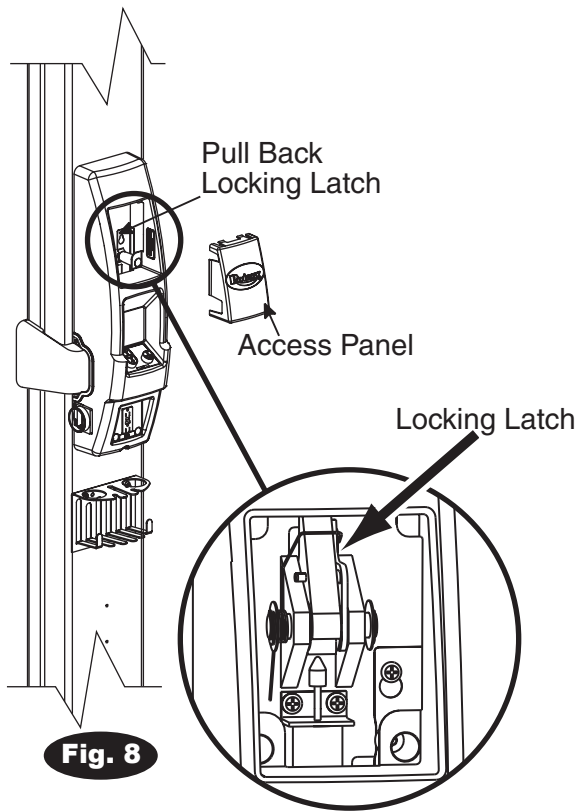
Lift is not intended for outdoor use and has an operating ambient temperature range of 41°-104°F (5°-40°C).

APPROVED ACCESSORIES		
Item	Capacity	Part Number
Truck Adapter (For Flip-Up Adapter)	2500 lbs.	FJ6115
Truck Adapter (For Flip-Up Adapter)	2500 lbs.	FJ6133
Mini-Van Adapter (For Flip-Up Adapter)	1750 lbs.	FJ6137
Polymer Pad Adapter (For Flip-Up Adapter)	2500 lbs.	FJ6138
High Step Polymer Pad Adapter	2500 lbs.	FJ6139
1" Pad Adapter	2500 lbs.	FJ6190
Rubber Adapter for: SPOA10, SPO10	2500 lbs.	FJ6182
Adapter for: SPOA10, SPO10	2500 lbs.	FJ6191
3-1/2" Adapter Extension	2500 lbs.	FJ7880
5" Adapter Extension	2500 lbs.	FJ7880
Air/Electric Utility Box		FA5911
Air/Electric Utility Box Without FRL		FA5910
Filter/Regulator/Lubricator (FRL)		FA5166

MANUAL LOWERING OF THE LIFT

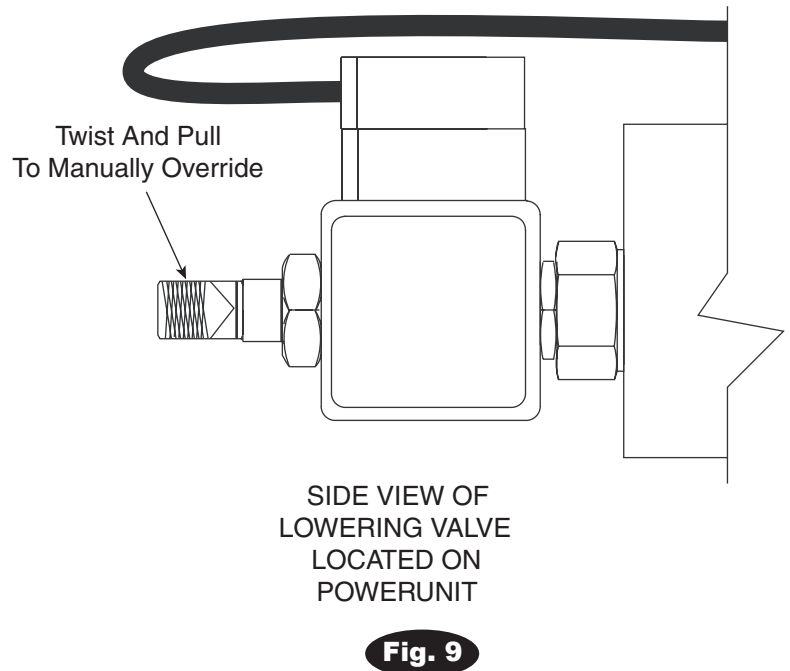
If your lift is in a raised position and you lose power it is important to know how to lower the lift manually. Make sure nothing is under the lifting structure of vehicle and all unauthorized personnel are away from the lift area.

1. Place a hydraulic jack and pipe under the carriage on the master control side. Jack should be rated to lift the capacity of the vehicle.



2. Raise lift off of the locking latch. You should only have to raise lift approximately 1/4" to disengage the lock.
3. Remove access panel from the control panel and pull locking latch back, Fig. 8. If you can't pull it back with your fingers then you don't have the latch off of the lock. Repeat Step 2 until lock is disengaged.
4. Place a flat piece of steel behind latch dog and back of column to keep it off of the lock.
5. Slowly lower hydraulic jack and pipe out from under the arm carriage.

6. Repeat procedures 1 thru 5 on slave control panel column.
7. The lift is now being held up by hydraulics at this point.
8. Remove cap from lowering valve and twist and pull to lower lift, Fig. 9. The lift will lower at a slow speed. Replace cap on lowering valve after the lift has been lowered.
9. If your facility lost power your lift will operate when you regain power.
10. If your facility power was not lost, have a certified electrician check wiring to lift or call an authorized Rotary repair person.



DATE	REV	CHANGE
3-14-05	-	Issue
6-21-05	A	Add 700 Series to literature.
6-11-07	B	Added UL201 Verbiage
9-12-07	C	Added cable inspection update.
3.2.09	D	Updated spotting diagram

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A DOVER COMPANY

